

Sub 1
1. (Twice amended) A process for the manufacture of mouldings that are crosslinked in a mould at least to a degree sufficient to be released from the mold, comprising the steps of:

introducing a crosslinkable material that is in a state in which it is at least partially uncrosslinked into the mould, wherein the mould has a mould cavity determining the shape of the moulding to be produced and is at least partially impermeable to an energy suitable to cause the crosslinking of the crosslinkable material;

B1
providing the energy causing the crosslinking; and

impinging in a spatially restricted manner the energy causing the crosslinking upon all the portion of the crosslinkable material located in the mould cavity and limited by a peripheral boundary defined by the spatial restriction of the energy impingement, so as to cause crosslinking of the portion of the crosslinkable material in the mould cavity to form the moulding, wherein the edge contour of the moulding is determined substantially by the spatial restriction of the energy impingement, so that a moulding is produced free from burrs or flashes.

40. (twice amended) A device for the manufacture of mouldings, comprising:

a closable and openable mould defining a mould cavity which is capable of determining the shape of a moulding to be produced therein, wherein the mould is at least partially permeable to an energy suitable to cause crosslinking of a crosslinkable material to be introduced into the mould;

B2
a source providing energy suitable to cause crosslinking of the crosslinkable material;

means for causing impingement of the energy, in a spatially restricted manner, upon all the portion of the crosslinkable material located in the mould cavity and limited by a peripheral boundary defined by the spatial restriction of the energy impingement, so as to cause crosslinking of the portion of the crosslinkable material in the mould cavity to form a moulding, wherein the edge contour of the moulding is determined substantially by the spatial restriction of the energy impingement, so that a moulding is produced free from burrs or flashes.

79. (once amended) A process for the manufacture of a crosslinked moldings, comprising the steps of:

B3
(a) introducing a crosslinkable material into a mold, wherein said mold is at least partially impermeable to a crosslinking energy suitable to crosslink the crosslinkable material and has a mold cavity determining the shape of the molding to be produced;

(b) providing the crosslinking energy; and

(c) causing the crosslinking energy to be impinged, in a spatially restricted manner and in an amount sufficient, upon all the portion of the crosslinkable material located in the mold cavity